

### REMARKS

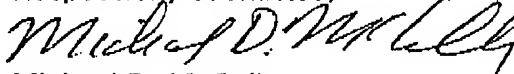
The Examiner has asserted that applicants' specification does not provide enablement for the method steps in original claims 12-16. By example, she asserts that the specification provides no guidance with regard to apparatus/steps for analyzing a DNA sequence, identifying a specific gene, or correlating a gene with a specific physical condition, and that the prior art provides no such guidance. Applicants respectfully disagree with the examiner. It is common knowledge among members of the Human Genome Project that the sequencing of the human genome has been mapped (i.e., sequenced and assembled). Annotating each gene is presently being done. Therefore anyone skilled in the art to which this invention pertains fully understands the steps of applicants' invention - analyzing a DNA sequence, identifying a specific gene, and correlating the gene with a specific physical condition. True, the entire Human Genome has yet to be annotated to the point where all approximately 80,000 genes are correlated with specific conditions; that is an on-going process, but many specific genes have already been annotated and correlated with specific physical conditions. Therefore, the prior art does, in fact, provide guidance in this regard.

The Examiner asserts that a DNA sample must first be isolated from a biological sample before any sequence analysis can be performed, and that the specification does not disclose any such steps or means. Applicants assert that those skilled in the art know well what must be done preparatory to analyzing the gene sequence, and those steps and means for performing those steps are well-known to those skilled in the art. Similarly, those skilled in the art fully understand what is intended in each of applicants' claim steps, and are fully capable of carrying out those steps without undue experimentation, e.g., analyzing a genetic sample to identify the individual's unique genetic DNA sequence is commonly done on a daily basis; comparing the unique DNA sequence with the database of human DNA to result in a unique genetic

profile for the individual can be done by many scientific computer programmers; correlating the unique genetic profile with specific physical conditions to result in an identification of specific physical conditions unique to the unique genetic profile is already being done by many utilizing the daily-increasing database of gene-to-condition correlations. The remaining individual steps are well-known to others skilled in their particular arts, for example, designers of robotics and other automated mechanisms.

Applicants believe that the newly-submitted claims 17-28 will be found to be patentable over all prior art DNA sequence information publicly available at the time of filing the priority application in this case, and that, therefore, the newly-submitted claims 17-28 will be in condition for allowance. Applicants courteously request Examiner Moran to withdraw her present rejections of the claims in this case and pass this case to issue in due course. If the Examiner has any questions regarding applicants' newly-submitted claims, or feels that a resolution to this case might be effected by telephone interview, applicants courteously encourage her to telephone the undersigned to discuss resolution of this case.

Respectfully submitted,



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## CLAIMS PRESENTLY UNDER CONSIDERATION

1-16. CANCELED

17. (New) A method of operating a human DNA database, comprising:
- a) providing a genetic sample from an individual;
  - b) analyzing the genetic sample to identify the individual's unique genetic DNA sequence;
  - c) comparing the unique DNA sequence with the database of human DNA to result in a unique genetic profile for the individual;
  - d) correlating the unique genetic profile with specific physical conditions to result in an identification of specific physical conditions unique to the unique genetic profile; and
  - e) providing the specific physical condition information in human-readable and/or machine-readable form.

18. (New) The method of operating a human DNA database as set forth in claim 17 further comprising removing, collecting, and storing biologically hazardous materials which may have resulted from obtaining the genetic sample, and removing, collecting, and storing apparatus components potentially contaminated by the genetic sample.

19. (New) The method of operating a human DNA database as set forth in claim 17 further comprising processing payment for the services of providing the specific physical condition information.

20. (New) The method of operating a human DNA database as set forth in claim 18 wherein step 18 is automatic following completion of steps a) - e).

21. (New) The method of operating a human DNA database as set forth in claim 17 wherein step a) comprises withdrawing blood from the finger of the user.

22. (New) The method of operating a human DNA database as set forth in claim 17 further comprising destroying all electronic data relating to the genetic sample, genome analysis, and specific physical condition.

23. (New) A method of providing an individual with details of his unique individual genome, comprising:

- a) providing a genetic sample from the individual;
- b) analyzing the genetic sample to identify the individual's unique genetic DNA sequence;
- c) comparing the unique DNA sequence with the database of human DNA to result in a unique genetic profile for the individual;
- d) correlating the unique genetic profile with specific physical conditions to result in an identification of specific physical conditions unique to the unique genetic profile; and
- e) providing the specific physical condition information in human-readable and/or machine-readable form.

24. (New) A method of providing an individual with details of his unique individual genome as set forth in claim 23 further comprising removing, collecting, and storing biologically hazardous materials which may have resulted from obtaining the genetic sample, and removing, collecting, and storing apparatus components potentially contaminated by the genetic sample.

25. (New) The method of providing an individual with details of his unique individual genome as set forth in claim 23 further comprising processing payment for the services of providing the specific physical condition information.

26. (New) The method of providing an individual with details of his unique individual genome as set forth in claim 24 wherein step 24 is automatic following completion of steps a) - e).

27. (New) The method of providing an individual with details of his unique individual genome as set forth in claim 23 wherein step a) comprises withdrawing blood from the finger of the user.

28. (New) The method of providing an individual with details of his unique individual genome as set forth in claim 23 further comprising destroying all electronic data relating to the genetic sample, genome analysis, and specific physical condition.